

**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO./TITLE
09/371,972	08/10/99	IOURCHA	K 3594-US

0232/0826

ARNOLD M DE GUZMAN ESQ
FENWICK & WEST LLP
TWO PALO ALTO SQUARE
PALO ALTO CA 94306

NOT ASSIGNED

2787

DATE MAILED:

08/26/99

NOTICE TO FILE MISSING PARTS OF APPLICATION
Filing Date Granted

An Application Number and Filing Date have been assigned to this application. The items indicated below, however, are missing. Applicant is given TWO MONTHS FROM THE DATE OF THIS NOTICE within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). If any of items 1 or 3 through 5 are indicated as missing, the SURCHARGE set forth in 37 CFR 1.16(e) of ☐ \$65.00 for a small entity in compliance with 37 CFR 1.27, or ☒ \$130.00 for a non-small entity, must also be timely submitted in reply to this NOTICE to avoid abandonment.

If all required items on this form are filed within the period set above, the total amount owed by applicant as a ☐ small entity (statement filed) ☒ non-small entity is \$ 130.00.

- ☐ 1. The statutory basic filing fee is:
- ☐ missing.
 - ☐ insufficient.

Applicant must submit \$_____ to complete the basic filing fee and/or file a small entity statement claiming such status (37 CFR 1.27).

- ☐ 2. The following additional claims fees are due:

\$_____ for _____ total claims over 20.

\$_____ for _____ independent claims over 3.

\$_____ for multiple dependent claim surcharge.

Applicant must either submit the additional claim fees or cancel additional claims for which fees are due.

- ☒ 3. The oath or declaration:
- ☒ is missing or unsigned.
 - ☐ does not cover the newly submitted items.

An oath or declaration in compliance with 37 CFR 1.63, including residence information and identifying the application by the above Application Number and Filing Date is required.

- ☐ 4. The signature(s) to the oath or declaration is/are by a person other than inventor or person qualified under 37 CFR 1.42, 1.43 or 1.47.

A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

- ☐ 5. The signature of the following joint inventor(s) is missing from the oath or declaration:

1124

An oath or declaration in compliance with 37 CFR 1.63 listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Filing Date, is required.

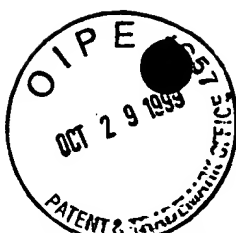
- ☐ 6. A \$50.00 processing fee is required since your check was returned without payment (37 CFR 1.21(m)).
- ☐ 7. Your filing receipt was mailed in error because your check was returned without payment.
- ☐ 8. The application was filed in a language other than English.
Applicant must file a verified English translation of the application, the \$130.00 set forth in 37 CFR 1.17(k), unless previously submitted, and a statement that the translation is accurate (37 CFR 1.52(d)).
- ☐ 9. OTHER:

Direct the reply and any questions about this notice to "Attention: Box Missing Parts."

A copy of this notice MUST be returned with the reply.

G. Moore
Customer Service Center
Initial Patent Examination Division (703) 308-1202

11/20/1999 0854HLE 00000015 09371972 130.00 OP 01C:105



PTO/SB/21 (modified)

Approved for use through xx/xx/xx, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

0001/PTO Rev. 10/95 TRANSMITTAL FORM (to be used for all correspondence during pendency of filed application)	U.S. Department of Commerce Patent and Trademark Office	Application Number	09/371,972	
		Filing Date	August 10, 1999	
		First Named Inventor	Konstantine I. Iourcha	
		Group Art Unit Number	2787	
		Examiner Name	not yet known	
Total Number of Pages in This Submission		16	Attorney Docket Number	3594 US

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form (in duplicate) <input checked="" type="checkbox"/> Check Enclosed <input checked="" type="checkbox"/> Return Receipt Postcard <input checked="" type="checkbox"/> Response to Notice to File Missing Parts <input type="checkbox"/> Assignment & PTO-1595 <input checked="" type="checkbox"/> Declaration <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Information Disclosure Statement & PTO-1449 <input type="checkbox"/> Copies of IDS Cited References <input checked="" type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Request for Correction of Recorded Assignment <input type="checkbox"/> Amendment/Response: [] Page(s) <input type="checkbox"/> After Final <input type="checkbox"/> Status Request <input type="checkbox"/> Revocation and Power of Attorney	<input type="checkbox"/> Issue Fee Transmittal <input type="checkbox"/> Letter to Chief Draftsperson <input type="checkbox"/> Formal Drawing(s): [] Sheet(s) of Figure(s) [] <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> After Allowance Communication to Group <input checked="" type="checkbox"/> Copy of Filing Receipt <input checked="" type="checkbox"/> Copy of 1 st Page of Specification <input checked="" type="checkbox"/> Copy of Executed Declaration <input checked="" type="checkbox"/> Certification of 1 st Class Mailing <input checked="" type="checkbox"/> Authorization to Charge Deposit Account (via fee transmittal)
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REMARKS:**SIGNATURE OF ATTORNEY OR AGENT**

Signature:			
Attorney/Reg. No.:	Arnold M. de Guzman, Esq./ Reg. No.: 39,955	Dated:	Oct. 26, 1999

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including the enclosures identified above, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on the date shown below. If the Express Mail Mailing Number is filled in below, then this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service pursuant to 37 CFR 1.10.			
Signature:			
Typed or Printed Name:	Arnold M. de Guzman, Esq.	Dated:	Oct. 26, 1999
Express Mail Mailing Number (optional):			



PTO/SB/17 (6-95)(modified)
Approved for use through 11/30/96, OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

0002/PTO(modified) Rev. 10/95	U.S. Department of Commerce Patent and Trademark Office	Complete if Known	
		Application Number	09/371,972
		Filing Date	August 10, 1999
		First Named Inventor	Konstantine I. Iourcha
		Group Art Unit	2787
		Examiner Name	not yet known
FEE TRANSMITTAL		Attorney Docket Number	3594 US
TOTAL AMOUNT OF PAYMENT			
Subtotal (1) + Subtotal (2) + Subtotal (3) =		(\$) 155.00	

METHOD OF PAYMENT		FEE CALCULATION (continued)																																																																																											
1. The Commissioner is hereby authorized to:		3. ADDITIONAL FEES																																																																																											
<input type="checkbox"/> Charge the indicated fees to the below mentioned deposit account.		<table border="1"><thead><tr><th>Large Entity Fee Code/Fee</th><th>Small Entity Fee Code/Fee</th><th>Fee Description</th><th>Fee Due</th></tr></thead><tbody><tr><td>105/\$130</td><td>205/\$65</td><td>Surcharge - late filing fee or oath</td><td>130</td></tr><tr><td>127/\$50</td><td>227/\$25</td><td>Surcharge-late provisional filing fee or cover sheet</td><td></td></tr><tr><td>147/\$2,520</td><td>147/\$2,520</td><td>For filing a request for reexamination</td><td></td></tr><tr><td>115/\$110</td><td>215/\$55</td><td>Extension for response within first month[†]</td><td></td></tr><tr><td>116/\$380</td><td>216/\$190</td><td>Extension for response within second month[†]</td><td></td></tr><tr><td>117/\$870</td><td>217/\$435</td><td>Extension for response within third month[†]</td><td></td></tr><tr><td>118/\$1,360</td><td>218/\$680</td><td>Extension for response within fourth month[†]</td><td></td></tr><tr><td>128/\$1,850</td><td>228/\$925</td><td>Extension for response within fifth month[†]</td><td></td></tr><tr><td>119/\$300</td><td>219/\$150</td><td>Notice of Appeal</td><td></td></tr><tr><td>141/\$1,210</td><td>241/\$605</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr><tr><td>142/\$1,210</td><td>242/\$605</td><td>Utility Issue Fee (Or Reissue)</td><td></td></tr><tr><td>143/\$430</td><td>243/\$215</td><td>Design Issue Fee</td><td></td></tr><tr><td>122/\$130</td><td>122/\$130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>123/\$50</td><td>123/\$50</td><td>Petitions related to provisional applications</td><td></td></tr><tr><td>126/\$240</td><td>126/\$240</td><td>Submission of Information Disclosure Statement</td><td></td></tr><tr><td>581/\$40</td><td>581/\$40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr><tr><td>146/\$760</td><td>246/\$380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr><tr><td>149/\$760</td><td>249/\$380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr><tr><td colspan="2">Other fee (specify): Request For Corrected Filing Receipt</td><td></td><td>25</td></tr><tr><td colspan="2">Other fee (specify):</td><td></td><td></td></tr><tr><td colspan="2"></td><td>SUBTOTAL (3)</td><td>(\$) 155.00</td></tr></tbody></table>		Large Entity Fee Code/Fee	Small Entity Fee Code/Fee	Fee Description	Fee Due	105/\$130	205/\$65	Surcharge - late filing fee or oath	130	127/\$50	227/\$25	Surcharge-late provisional filing fee or cover sheet		147/\$2,520	147/\$2,520	For filing a request for reexamination		115/\$110	215/\$55	Extension for response within first month [†]		116/\$380	216/\$190	Extension for response within second month [†]		117/\$870	217/\$435	Extension for response within third month [†]		118/\$1,360	218/\$680	Extension for response within fourth month [†]		128/\$1,850	228/\$925	Extension for response within fifth month [†]		119/\$300	219/\$150	Notice of Appeal		141/\$1,210	241/\$605	Petition to revive unintentionally abandoned application		142/\$1,210	242/\$605	Utility Issue Fee (Or Reissue)		143/\$430	243/\$215	Design Issue Fee		122/\$130	122/\$130	Petitions to the Commissioner		123/\$50	123/\$50	Petitions related to provisional applications		126/\$240	126/\$240	Submission of Information Disclosure Statement		581/\$40	581/\$40	Recording each patent assignment per property (times number of properties)		146/\$760	246/\$380	Filing a submission after final rejection (37 CFR 1.129(a))		149/\$760	249/\$380	For each additional invention to be examined (37 CFR 1.129(b))		Other fee (specify): Request For Corrected Filing Receipt			25	Other fee (specify):						SUBTOTAL (3)	(\$) 155.00	1. FILING FEE	
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SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Arnold M. de Guzman, Esq.	Reg. Number	39,955
Signature		Date	Oct. 26, 1999

[†] Request for Extension of Time per 37 CFR 1.136 (a)(3) made hereby



PATENT

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

APPLICANT(S): KONSTANTINE I. IOURCHA, CHUNG-KUANG CHIN & ZHOU HONG
SERIAL NO.: 09/371,972
FILING DATE: August 10, 1999
TITLE: Systems & Method For Rasterizing Primitives Using Direct Interpolation
EXAMINER: not yet known
GROUP ART UNIT: 2787
ATTY. DKT. NO.: 3594 US

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner For Patents, Washington, D.C. 20231, on the date shown below:

Dated: October 26, 1999

By: [Signature]
Arnold M. de Guzman, Reg. No.: 39,955

BOX MISSING PARTS
ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

**RESPONSE TO NOTICE TO FILE MISSING
PARTS OF APPLICATION**

SIR:


Responsive to Form PTO-1533 dated August 26, 1999 received in the above-identified patent application, enclosed are:

- ☒ a copy of the Notice to File Missing Parts;
- ☒ an original, signed Declaration;
- ☒ a check in the amount of \$130.00 for the surcharge;
- ☒ Request to Correct Filing Receipt;
 - ☒ copy of the Filing Receipt;
 - ☒ copy of the first page of the Specification;
 - ☒ copy of the original, signed Declaration;
 - ☒ a check for \$25.00 for Correction of Filing Receipt;

In accordance with the requirements under MPEP 605.04 (b), Applicants hereby notify the Examiner and USPTO of a typographical or transliteration error in the spelling of an inventor's name in this application. In particular, the name of inventor Ken Chen should be correctly changed to Chung-Kuang Chin as shown in the enclosed inventor declaration form.

Respectfully submitted,
KONSTANTINE I. IOURCHA,
CHUNG-KUANG CHIN & ZHOU HONG

Dated: October 26, 1999

By: 
Arnold M. de Guzman, Reg. No.: 39,955
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
Tel.: (650) 858-7986
Fax.: (650) 494-1417

PATENT



IN THE UNITED STATES

PATENT AND TRADEMARK OFFICE

APPLICANT(S): KONSTANTINE I. IOURCHA, CHUNG-KUANG CHIN & ZHOU HONG
SERIAL NO.: 09/371,972
FILING DATE: August 10, 1999
TITLE: Systems & Method For Rasterizing Primitives Using Direct Interpolation
EXAMINER: not yet known
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Arnold M. de Guzman, Reg. No.: 39,955

ASSISTANT COMMISSIONER FOR PATENTS
APPLICATION PROCESSING DIVISION
CUSTOMER CORRECTION BRANCH
WASHINGTON, DC. 20231

REQUEST FOR CORRECTED FILING RECEIPT

SIR:

Enclosed is a copy of the Official Filing Receipt. It contains the following errors:

1. An Applicant's name is erroneously stated as Ken Chen. The Applicant's correct name is **Chung-Kuang Chin** as evidenced by the executed Declaration, a copy of which is enclosed. Applicants initially presented the inventor's name as he is commonly known, i.e., 'Ken Chin', as evidenced by the first page of the Specification (copy enclosed). The USPTO's error was in the misspelling of inventor's last name: 'Chen' instead of '**Chin**'. Applicants respectfully request that the USPTO replace the present name of inventor 'Ken Chin' to the inventor's legal name (**Chung-Kuang Chin**) in this application.

2. At the time of filing of this application, Inventor Chung-Kuang Chin's residence was not available and was not known to the Attorney Of Record. Inventor Chung-Kuang Chin's residence, is **Saratoga, California**, as evidenced by the executed Declaration, a copy of which is enclosed.


3. Inventor Zhou Hong's address should be changed to **Cupertino, California**, as evidenced by the executed Declaration, a copy of which is enclosed.

Please issue a corrected Filing Receipt rectifying these errors.

Since at least one of the corrections is due to Applicants' omission, payment in the amount of \$25, pursuant to 37 CFR § 1.19(h), is enclosed.

Respectfully submitted,
KONSTANTINE I. IOURCHA,
CHUNG-KUANG CHIN & ZHOU HONG

Dated: October 26, 1999

By: 
Arnold M. de Guzman, Reg. No.: 39,955
Fenwick & West LLP
Two Palo Alto Square
Palo Alto, CA 94306
Tel.: (650) 858-7986
Fax.: (650) 494-1417

FILING RECEIPT



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

COPIES

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTORNEY DOCKET NO.	DRWGS	TOTAL
09/371,972	08/10/99	2787	\$994.00	3594-US	8	15 6

ARNOLD M DE GUZMAN ESQ
FENWICK & WEST LLP
TWO PALO ALTO SQUARE
PALO ALTO CA 94306

RECEIVED

AUG 30 1999

FENWICK & WEST LLP

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts of Application" ("Missing Parts Notice") in this application, please submit any corrections to this Filing Receipt with your reply to the "Missing Parts Notice." When the PTO processes the reply to the "Missing Parts Notice," the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s) **KONSTANTINE I. IOURCHA, SAN JOSE, CA; ~~KEN CHEN,~~**
~~RESIDENCE NOT PROVIDED; ZHOU HONG, RESIDENCE NOT PROVIDED,~~
~~SARATOGA, CA~~ **CHUNG-KUANG CHIN**
~~CUPERTINO, CA.~~

CONTINUING DATA AS CLAIMED BY APPLICANT-
PROVISIONAL APPLICATION NO. 60/095,995 08/10/98

IF REQUIRED, FOREIGN FILING LICENSE GRANTED 08/26/99
TITLE
SYSTEM AND METHOD FOR RASTERIZING PRIMITIVES USING DIRECT
INTERPOLATION

PRELIMINARY CLASS: 708

Best Available

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

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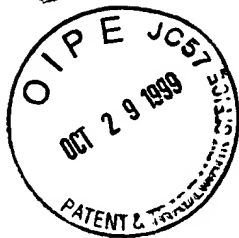
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**SYSTEM AND METHOD FOR RASTERIZING PRIMITIVES USING
DIRECT INTERPOLATION**

Inventors:

Konstantine I. Iourcha,
Ken Chin, and
Zhou Hong

CROSS-REFERENCE TO RELATED APPLICATION

The subject matter of this application is related to the subject matter of co-pending U.S. Patent Application Serial No. 09/020,152 filed on February 6, 1998, by Konstantine Iourcha, Andrea Nguyen, and Daniel Hung, entitled "FAST ADDER/SUBTRACTOR FOR SIGNED FLOATING POINT NUMBERS", which is fully incorporated herein by reference. This application claims priority to U.S. Provisional Application Serial No. 60/095,995 filed on August 10, 1998, by Konstantine Iourcha et al., entitled "RATIO ENGINE FOR GRAPHIC INTERPOLATION", which is fully incorporated herein by reference.

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates generally to rendering graphics systems, and more particularly to texture mapping in graphics systems.